





New England Ratepayer Advocate Summit

September 17, 2008

Cambridge, MA

Richard Steeves. Vice Chair

Connecticut Energy Efficiency Fund c/o Office of Consumer Counsel 10 Franklin Square New Britain, CT 06051 (860) 827-2912

CTSavesEnergy.org



What Is the OCC?

- Office of Consumer Counsel
- Mary J. Healey, Consumer Counsel
- 10 Franklin Square
- New Britain, CT 06051
- (860)827-2900
- http://www.ct.gov/occ/site/default.asp
- OCC: Member of ECMB, CEAB, NEPOOL, NERC, CERC, NASUCA, CCEF





THE OCC MISSION



OCC is an independent state agency with statutory responsibility to represent customers of Connecticut's five regulated utilities – electric, gas, water, telephone, and cable television, primarily in matters before the Department of Public Utility Control (DPUC) (and also at FERC).





The Mission of the Energy Conservation Management Board is to advise and assist the utility distribution companies in the development and implementation of comprehensive and cost-effective energy conservation and market transformation plans. (as per Sec 33(d), PA 98-28, An Act Concerning Utility Restructuring)



Stakeholder Buy In

The Business Community (4)

State Agencies (3)

Low Income Representation (1)

Environmental Community (1)

Utilities (5)

Initially, Many Were on "Opposing" Sides But Have Coalesced On C&LM



2007 CEEF Program Results

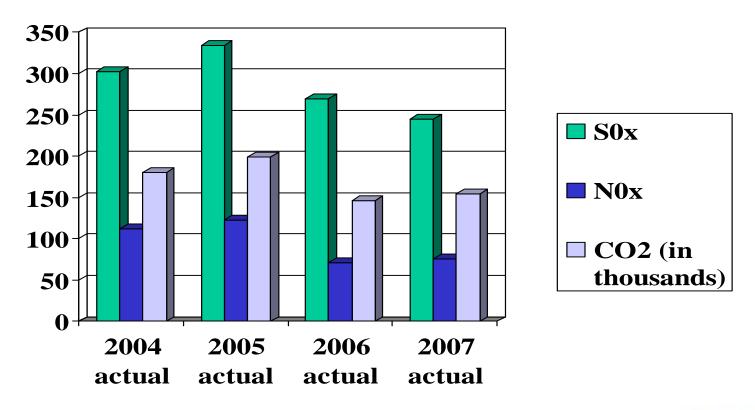
(CL&P and UI combined)

- 2007 lifetime energy savings 4.3 <u>B</u>illion kWh
 - (350M kWh annual savings)
- \$780M saved in electric energy costs (Lifetime from 2007 investments)
 - (~\$63M saved annually)
- Every dollar spent in 2007 on conservation programs will generate ~\$4 in future lifetime savings



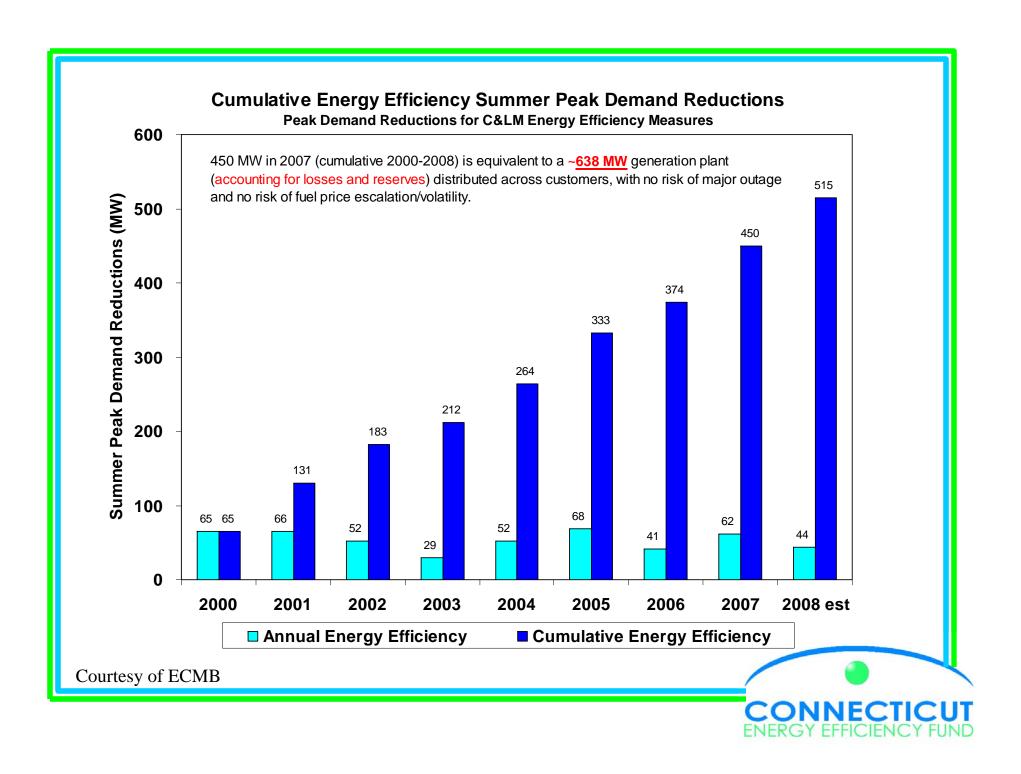
Environmental Benefits

(CL&P Reductions in tons of pollutants)



Note: 2006 decrease due to a 33% budget cut.





Why the CEEF Programs Are Successful?

- •Electric Price Increases (~\$0.18/kWh Residential)
- Availability of Programs for All Sectors
- Continual Improvement/Holistic Approaches
- •Early Intervention
- Marketing

Program Specific General Awareness

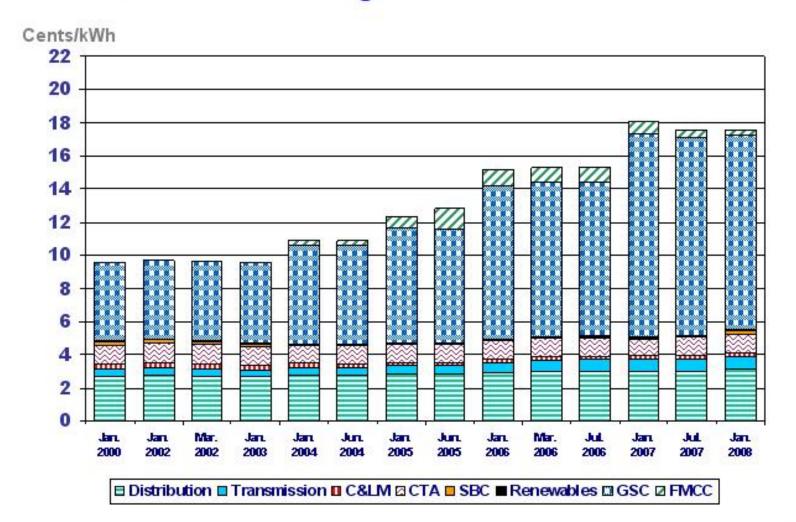


Why Are Costs Rising?

- The purchase price of energy
 - Utilities do not own electric generation facilities
 - They purchase electricity from suppliers
 - ❖ The cost of the oil, coal and natural gas used to produce electricity has increased dramatically



CL&P & UI Average Electric Rates, 2000 - 2008





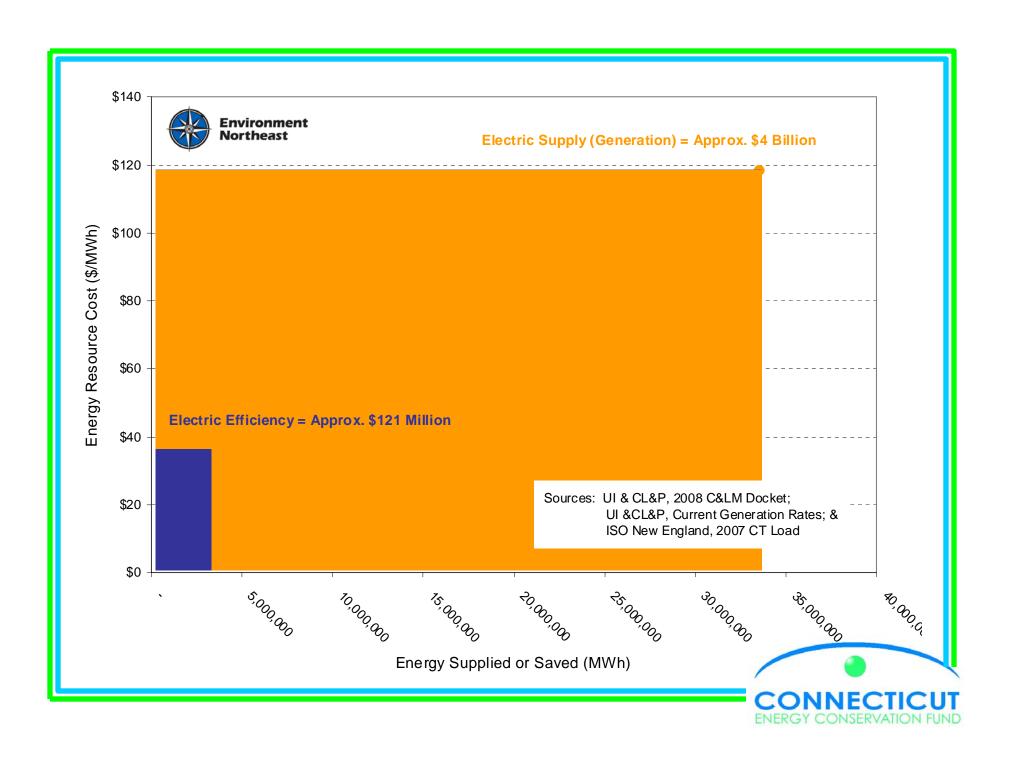


Exhibit ES-1
Relationship of ISO New England Electric Price and Natural Gas Price

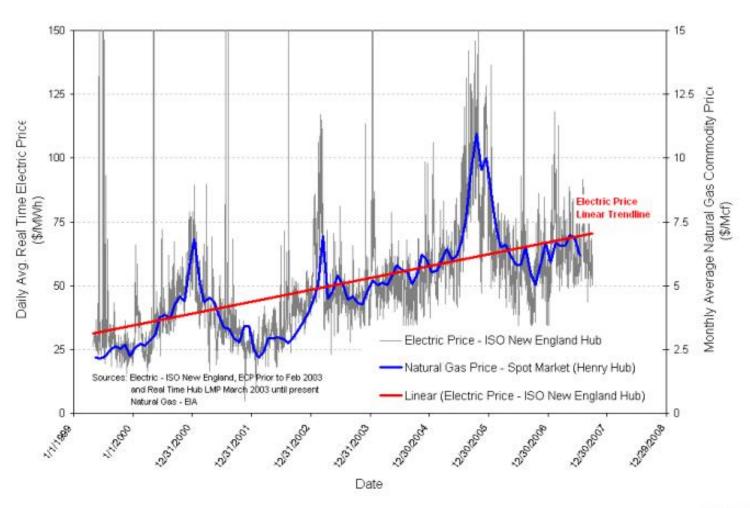




	Exhibit 8	3							
Connecticut's	s 1% and 2% H	ighest Hourly Loa	ids						
(88 Hours & 176 Hours, Respectively)									
	<u>2005</u>	<u>2006</u>	2007						
1% of Hourly Loads Exceed	6341 MVV	6161 MVV	5952 MVV						
% of Annual Energy in top 1%	1.7%	1.8%	1.7%						
% of Annual Costs in top 1%	3.1%	4.3%	2.9% \$132.90						
Average Price* (Day Ahead + Real-Time component \$)MWh	\$160.58	\$171.29							
% of top 1% Price Hours in top 1% Demand Hours	28%	52%	36%						
2% of Hourly Loads Exceed	6050 MVV	5733 MVV	5568 MVV						
% of Annual Energy in top 2%	3.2%	3.4%	3.2%						
% of Annual Costs in top 2%	5.4%	7.1%	5.0%						
Average Price* (Day Ahead + Real-Time component \$)MWh	\$144.45	\$151.27	\$119.58						
% of top 2% Price Hours in top 2% Demand Hours	23%	60%	28%						





American Council for an Energy-Efficient Economy

Certificate of Recognition for Exemplary Programs

to

Energy Conscious Blueprint Program

In recognition of its success and effectiveness in helping customers realize greater levels of energy efficiency. This program has yielded significant economic and environmental benefits through the energy savings it has achieved.

Connecticut Light & Power Connecticut Energy Efficiency Fund

Are commended for this high quality program which is hereby recognized as an exemplary energy efficiency program by the American Council for an Energy-Efficient Economy in our 2007 national review.

Steen M. Nall

Steven Nadel, ACEEE Executive Director

October 2, 2007



American Council for an Energy-Efficient Economy

Certificate of Recognition for Exemplary Programs
Honorable Mention

to

PRIME Program

In recognition of its success and effectiveness in helping customers realize greater levels of energy efficiency. This program has yielded significant economic and environmental benefits through the energy savings it has achieved.

Connecticut Light & Power Connecticut Energy Efficiency Fund

Is commended for this high quality program which is hereby selected for honorable mention by the American Council for an Energy-Efficient Economy in our 2007 national review of energy efficiency programs.

Steven M. Nadel

Steven Nadel, ACEEE Executive Director

October 2, 2007



American Council for an Energy-Efficient Economy

Certificate of Recognition for Exemplary Programs

to

Energy Opportunities Program

In recognition of its success and effectiveness in helping customers realize greater levels of energy efficiency. This program has yielded significant economic and environmental benefits through the energy savings it has achieved.

Connecticut Light & Power Connecticut Energy Efficiency Fund

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American Council for an Energy-Efficient Economy

Certificate of Recognition for Exemplary Programs
Honorable Mention

to

Home Energy Solutions Program

In recognition of its success and effectiveness in helping customers realize greater levels of energy efficiency. This program has yielded significant economic and environmental benefits through the energy savings it has achieved.

Connecticut Light & Power Connecticut Energy Efficiency Fund

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Residential: Home Energy Solutions

- Energy-saving program for existing homes
- Highly coordinated program administered by Connecticut's electric and natural gas utilities
- "Energy audit" of home provides:
 - Blower door-guided air sealing
 - Duct sealing
 - Water-saving measures
 - Direct installed lighting
 - Incentives for replacing old HVAC equipment and appliances

Home Energy Solutions

2007 Home Energy Solutions Program **Customer Interest Form** The objective of the Connecticut Energy Efficiency Fund's Home Energy Solutions (HES) Program, administered by CL&P, is to reduce customers' total energy use through a comprehensive treatment of residential dwellings. HES will provide a complete energy assessment of your home, including heavy emphasis on HVAC systems, lighting, building shell measures, and early replacement of old, and inefficient appliances including HVAC systems. Because there is a potential of oversubscription and high customer participation, CL&P reserves the right to restrict marketing to homes that could benefit the most. This program is free for electric utility and natural gas utility customers only. ALL OTHER CUSTOMERS REQUIRE A \$200 CO-PAY (SUBJECT TO CHANGE BASED ON PROGRAM FUNDING). FILLING OUT THIS FORM DOES NOT AUTOMATICALLY QUALIFY YOU FOR THE HES PROGRAM. If your home is selected you will be notified via letter or telephone to participate in the HES Program. An authorized adult must be present during the assessment and provide access to the Please fill out the following, based on what is CURRENTLY in your home. **CUSTOMER INFORMATION** (PLEASE PRINT) First Name Address City State Telephone Number INFORMATION Type of Home Utility Account Number Average Monthly Utility Bill Single Family Condo ☐ Duplex Age Square Footage Central Air Conditioning Age of of Home Yes No Central A/C of Home Duct Work Exposed Heat Type Fuel Type Hot Water Type Forced Hot Air Electric ☐ Gas ☐ Oil Gas Oil Basement Yes No ☐ Hot Water Baseboard ☐ Other ☐ Electric ☐ Propane Electric Propane Attic Floor Insulation Yes No Basement Ceiling Insulation Yes No What is the R Value? What is the R Value? Please Tell Us the Number and Age of ALL Appliances That Are Currently in Your Ho Age Refrigerator Dehumidifier Dish Washer Room A/C

PF





Mail completed form to: Craig Clark, C&LM Department, Connecticut Light & Power, 56 Curtis Street, New Britain, CT 05052



www.CTSavesEnergy.o

Consider of a Drugg Efficiency flow Programs are familiar by the Conserve Charge on coalmins falls.

Washing Machine

SIGN HERE





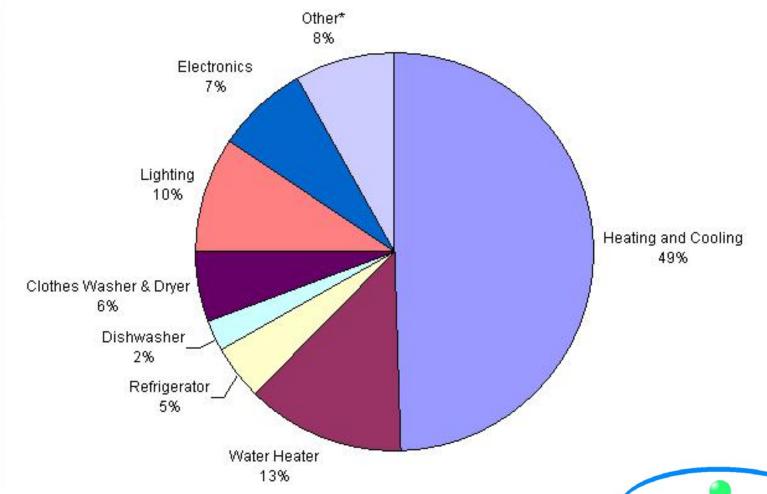
Freezer





Where Does My Money Go?

Annual Energy Bill for a typical Single Family Home is approximately \$1,900.

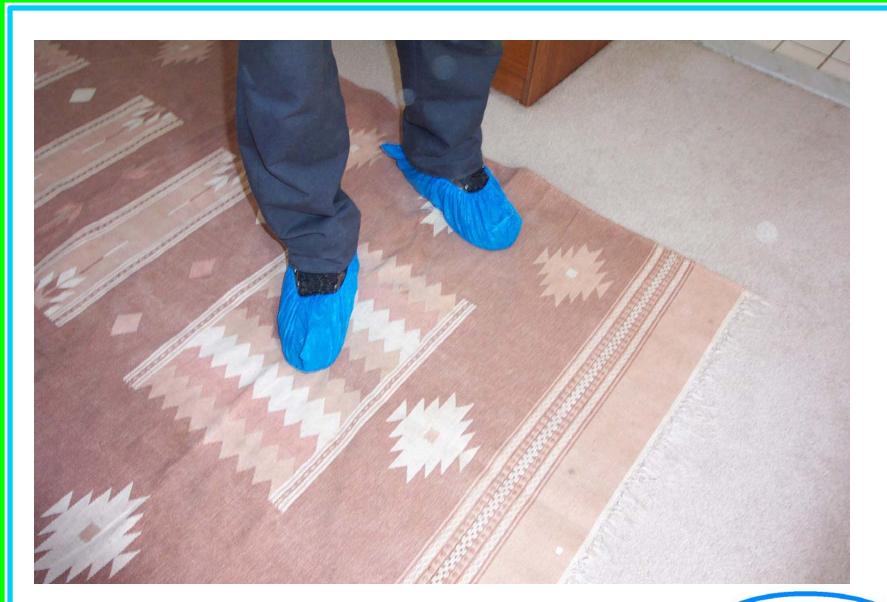




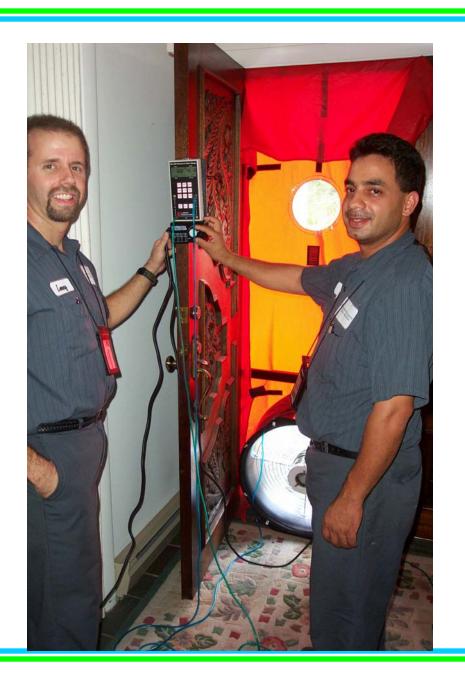
One Place to Begin is With the *Home Energy Solutions* Program



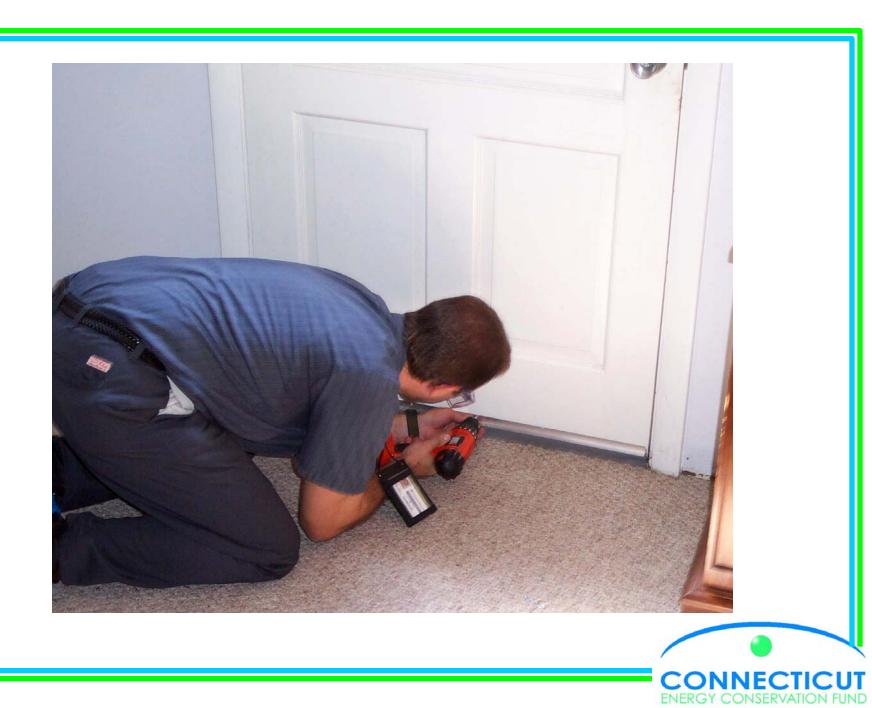


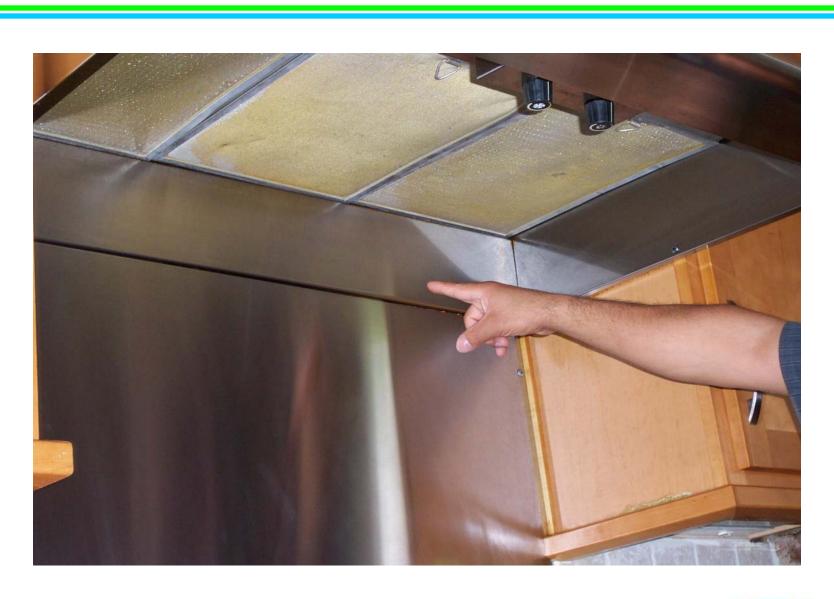
















The Kill-a-Watt Device Comes With the Program





YOU DO THE DISHES.

By putting off doing your dishes until after 8 pm, you can help keep costs down for all. And only run full loads to make the most of that hot water.

It's Your Energy. Use It Wisely.

More ways to save »



Demand Side Management

Demand Response (MW)

Load Response

Price Response

Energy Efficiency (MW & MWh)



Demand Response=Time Dependent Activities to:

Improve electric grid reliability
Manage electricity costs
Encourage load shifting/load shedding when the grid is near capacity or power prices are high

Demand Response Programs are designed to:

Offer clients incentives to curtail energy use Provide reliable, predictable amount of power reductions Typically require installation of software and hardware Control client's electric power as needed during high use periods



Load Response

Load Response programs operate in response to requests for peak load reductions.

There is little, if any, discretion in compliance on the part of the customer.

The buyer or operator, directs load response programs.



Price Response

Price response programs employ voluntary actions in response to economic signals

Price response programs rely on wholesale clearing prices as a signal to reimburse customers for their participation

Are much more likely to be voluntary

Price Response and Load Response programs differ as a matter of degree





Additional Resources

CTEnergyInfo.com Links Page

Warm Weather Tips

Appliance Tips That Can Lower Your Energy Bill

Smart Tips for Kids

For Businesses

Connecticut Energy Efficiency Fund: Energy Programs for Your Business







Access to Programs Takes Many Forms

Print Media (including newsletter)

Television

Literature

Numerous Web Site Pathways

Account Representatives

Community Action Agencies



CONNservation fund newsletter

Connecticut's energy efficiency programs

June 2008

New Ice Cream Cake Manufacturing Plant a Sweet Success Story for Energy Efficient Construction



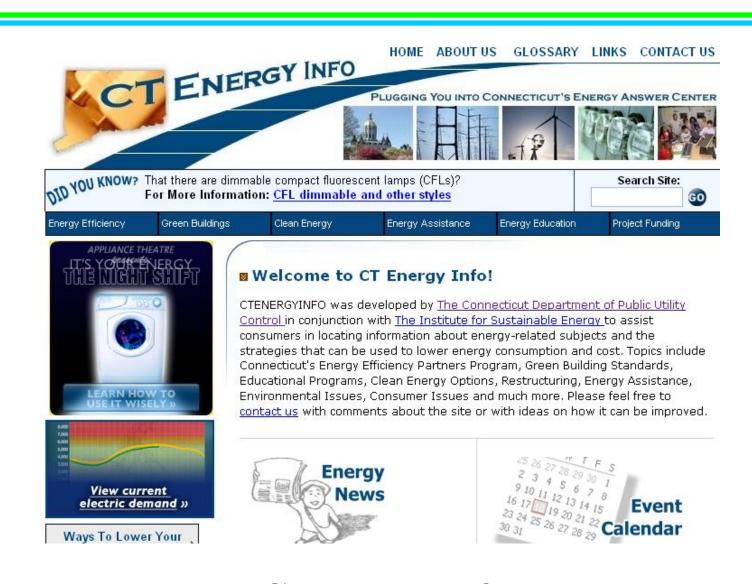
Just one year ago, 263 Myrtle Street in New Britain was home to a vacant, derelict factory that sat on a polluted brownfield. Now that address can boast a new, 120,000 square-foot facility that is the new manufacturing plant and worldwide headquarters for Celebration Foods. Celebration Foods is the manufacturer and distributor of frozen desserts for several brands including Carvel®.

Celebration Foods participated with Connecticut Light & Power (CL&P) in the CEEF's new commercial construction program, Energy

On June 10, Governor M. Jodi Rell, New Britain Mayor Tim Stewart, DPUC Commissioner Jack Betkoski, Energy Conservation Management Board (ECMB) Chairman Richard W. Steeves, and representatives from CL&P joined Celebration Foods at a ribbon-cutting ceremony in front of the new facility. Commissioner Jack Betkoski presented a plaque to the company on behalf of the CEEF and CL&P acknowledging their commitment to energy efficiency.







www.CtEnergyInfo.com







Energy Programs

For Your Home

Incentives and rebates.

For Your Business

Small businesses to large.

For Your Town

Initiatives for communities.

Additional Programs

A wide variety of initiatives.

Recent News

 That's the thinking behind the Connecticut Energy
Efficiency Fund, an initiative designed to make it easy
for residents and businesses get in the habit of using
energy more efficiently - to save money, energy and the

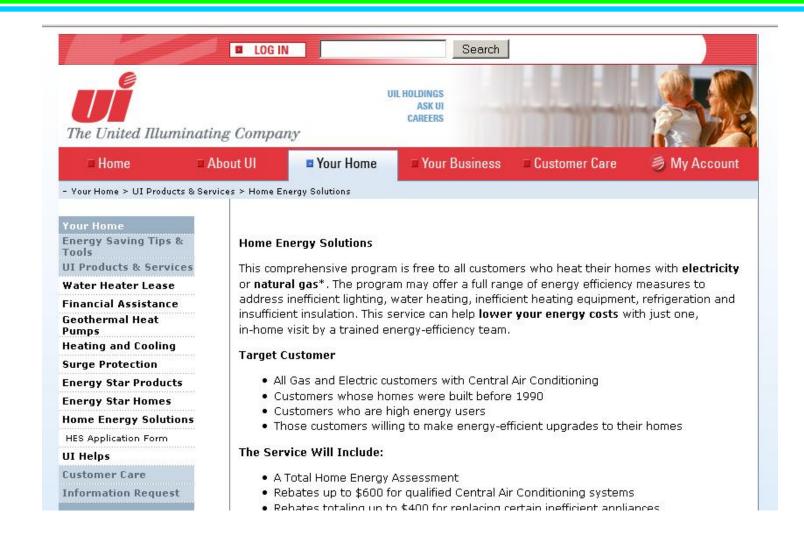
www.ctsavesenergy.com





www.cl-p.com/Home/SaveEnergy/default.aspx





www.uinet.com/



www.WattsNewCT.com

Electric Restructuring

Keeping You Informed About Electric Restructuring In Connecticut

Electric Choice | Clean Energy Options | Energy Efficiency | Rates/Choices | español

Visit with the Watts New Team across Connecticut

Press Releases

Sign up for email notifications

Glossary

FAOs

Ask a Question

Links

Click here for Connecticut's energy related web site





or not

WattsNewCT is an education campaign, created by the Connecticut Legislature and administered by the CT Department of Public Utility Control (DPUC), to inform electric consumers about electric competition and changes in the way you buy electricity. Connecticut's electric market is open to competition, giving you the power of choice. This means that most of you can choose the company that sells you your electricity.





www.wattsnewct.com



EE Going Forward for the Future Our Best and Newest Options

- Deeper and broader, more comprehensive
- Save 30-70% in customer facilities, instead of 5-25% (as in many current programs)
- Near Zero net energy buildings for all new construction
- Voluntary programs unlikely to be enough; need increased codes, standards & mandates





Show Me the Money!

Annual Bu	dget (\$ million) - CL	&P and l	JI									
CL&P and UI	ager (# mmon) Of	ian ana c										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
EE	Total EE	92.3	125.4	176.4	240.1	287.1	311.6	312.4	269.4	206.3	175.6	176.3
DR	Load Response	27.9	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.9	27.9	28.0
	Res. DLC	2.9	6.4	9.6	12.0	13.2	12.2	12.2	12.3	12.4	12.5	12.5
	Total DR	30.8	33.9	37.2	39.6	40.8	39.9	39.9	40.1	40.2	40.4	40.4
Total Budget		123.1	159.4	213.7	279.7	328.0	351.5	352.3	309.5	246.5	215.9	216.8
D 0	Francisco Correso											
Revenues &	Funding Sources C&LM (3 mils) EE	81.4	92.0	92.2	92.4	92.6	92.8	93.0	93.2	93.4	93.6	93.8
Funding	FCM EE	1.8	92.0 2.1	92.2 4.4	92.4 7.2	92.0 8.9	92.6 10.7	93.0 12.4	93.2 14.2	93.4 15.9	93.0 17.7	93.6 19.5
Sources	Class III EE	2.3	4.5	6.0	6.0	6.0	5.9	5.9	5.9	5.9	5.8	5.8
	FCM DR*	27.9	27.6	27.6	27.7	27.7	27.7	27.8	27.8	27.9	27.9	28.0
Total Estimat		113.3	126.2	130.2	133.2	135.2	137.1	139.1	141.1	143.1	145.1	147.0
Difference (B	udget - Revenues)	9.9	33.2	83.5	146.5	192.7	214.4	213.2	168.5	103.4	70.9	69.7
* FCM DR partia	ally funded by FMCCs in 2	007-2009										
2nd Total		123.1	159.4	213.7	279.7	328.0	351.5	352.3	309.5	246.5	215.9	216.8
Estimated	Potential RGGI Rev	enues - C	&LM Pro	ograms i	n CL&P	and UI S	ervice Te	rritories	(\$ million	n)	ECMI	B, 5/1/08
	Market Price											
	\$ Per Short Ton	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Estimated	\$2.00		14	14	14	14	14	14	14	14	14	14
Range	\$5.00		35	35	35	35	35	35	35	35	35	35



Major Web Resources

www.ctenergyinfo.com

www.ctsavesenergy.com

www.cl-p.com/Home/SaveEnergy/default.aspx

www.uinet.com

www.wattsnewct.com



Diet Advice

"Eat food, mostly plants, not too much"

Michael Pollan, Writer

Energy Efficiency Advice

"Use energy, mostly renewables, not too much"

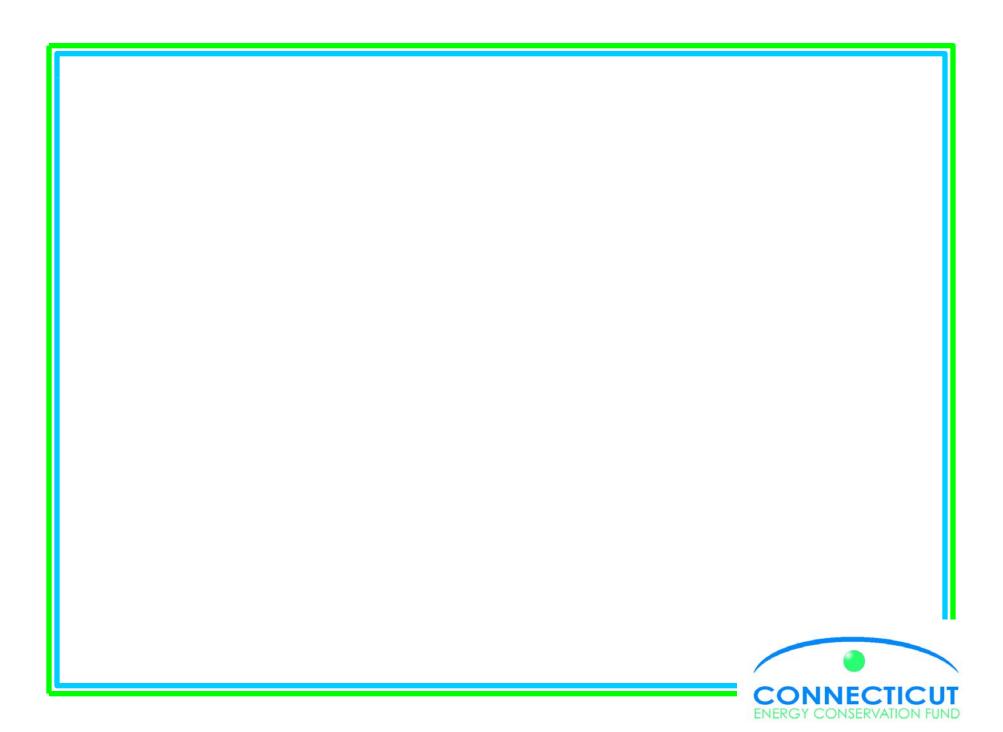
Richard W. Steeves

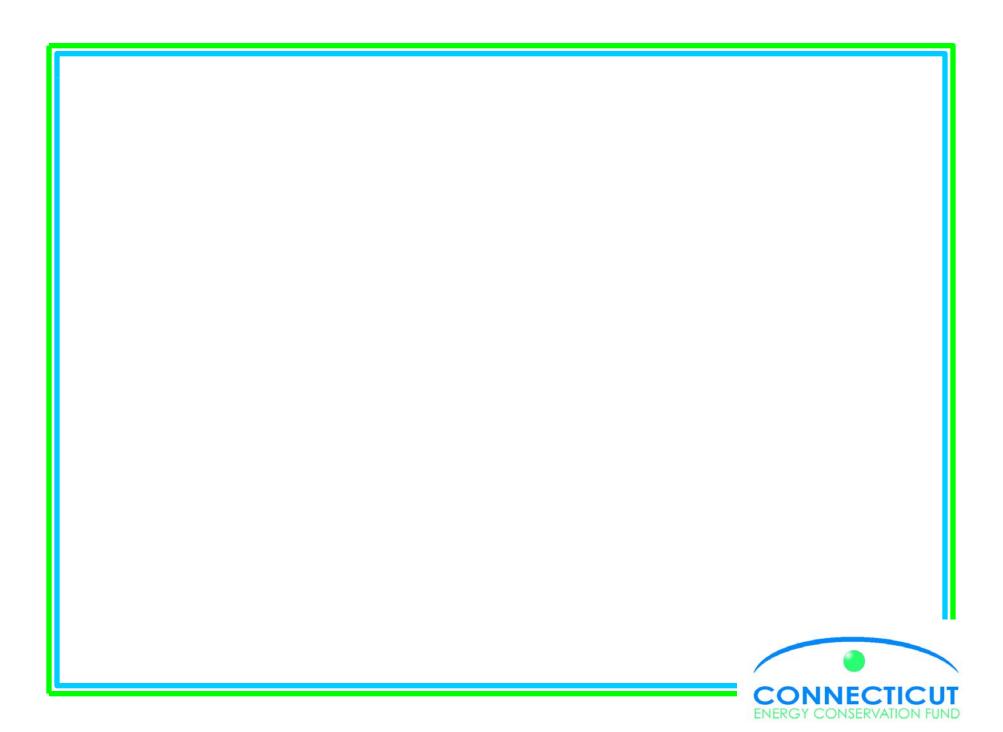


"We're From the Government; We're Here to Help You."

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- http://www.ct.gov/occ/site/default.asp







Help State's Businesses

CONSERVING

ENERGY

Why was

conservation

program

trimmed? DPUC

must encourage

efficiency

aybe Connecticut Light & Power Co. needs a lesson in fiscal discipline. But by short-changing energy-efficiency programs

this spring, the state Department of Public Utility Control taught hundreds of Connecticut businesses that the state can't be trusted.

The programs, funded by a surcharge on electric bills and administered by CL&P and United Illuminating, provide free energy audits, equipment and low-interest loans to help businesses and

residents control their energy costs. They also generate thousands of skilled "green" jobs and are nationally recognized for their effectiveness.

High energy prices and aggressive marketing of the programs created a powerful surge of interest in the past two years.

So much so that the demand pushed CL&P \$26 million over budget.

In an apparent attempt to impose fiscal discipline on CL&P, the DPUC authorized only \$11 million for the program in June.

This meant that CL&P had to rescind its rebate offers to more than 600 businesses. Many had invested thou-

> sands of dollars in plans and staffing, expecting reimbursement.

> The DPUC has a duty to make sure CL&P's spending toes the line. But its decision here fails to embrace the big picture.

> Conservation is the cheapest, quickest and cleanest way to address the state's energy challenges.

Every dollar spent on efficiency saves up to \$4 in energy costs; it also reduces greenhouse gas emissions and other pollutants.

Partly because of high energy prices, business and homeowners around the state are seeing the light. The DPUC is now weighing another proposal from CL&P for \$15 million to expand the state's energy conservation programs. We hope the agency will see fit to fund these programs on a level equal to the demand.

